

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents
 United States Patent and Trademark
 Office
 Box PCT
 Washington, D.C.20231
 ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 05 April 2000 (05.04.00)	
International application No. PCT/SG98/00011	Applicant's or agent's file reference
International filing date (day/month/year) 13 February 1998 (13.02.98)	Priority date (day/month/year)
Applicant CHUAH, Yeow, Chong	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:

08 October 1999 (08.10.99)

☐ in a notice effecting later election filed with the International Bureau on:2. The election ☐ was☒ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer C. Cupello
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

K. T. LIM & COMPANY*Advocates & Solicitors**Notary Public & Commissioner for Oaths***LIM KIEN THYE, LL.B. (Hons); LL.M.: Notary Public; Commissioner for Oaths****TOMAS V.L. HO, LL.B. (Hons)****BENJAMIN T.M. LOH, LL.B. (Hons) (Null): Barrister-at-Law (Middle Temple)**

532 Rec'd PCT/PTC

09/582716
30 JUN 2000

Your Ref:

Our Ref: LKT/BL/ITI/iU-411/97(rs)
LKT/BL/ITI/ip/521/98

15 February 2000

OSTERREICHISCHE PATENTAMT

Austrian Patent Office

Kohlmarkt 8-10

Postfach 95

A-1014 Vienna

Austria

BY FAX & POST

001-43-153424-520

Dear Sirs

PCT DEMAND IN INTERNATIONAL APPLICATION NUMBER:

(1) PCT/SG98/00010

(2) PCT/SG98/00011

We refer to our letter dated 8 October 1999 in relation to the above matter.

We note from our files that we have yet to hear from your good selves in relation to the PCT Demand forwarded to your good selves under the cover of the said letter. Please confirm receipt of the same.

Please do not hesitate to contact us should you require any further clarifications.

Yours faithfully

K.T. LIM & COMPANY

D:\1999\Correspondences\CLIENT\Osterreichisches\op15feb2000.ltr.doc

101 Cecil Street #25-03 Tong Eng Building Singapore 069533. Tel : 65-3211229

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

KT LIM & COMPANY
101 Cecil Street
25-06 Tong Eng Building
Singapore 069533

PCT

COMMUNICATION IN CASES FOR WHICH
NO OTHER FORM IS APPLICABLE

Applicant's or agent's file reference	Date of mailing (day/month/year) 29 March 2000 (29.03.00)
International application No. PCT/SG 98/00010, 11	REPLY DUE See paragraph 1 below
Applicant National Computer Board, Acting Through Its R&D Division, The Information Technology Inst. et al.	International filing date (day/month/year) 13 February 1998 (13.02.98)

1. ☐ REPLY DUE within _____ months/days from the above date of mailing
☐ NO REPLY DUE
☒ IMPORTANT COMMUNICATION
☐ INFORMATION ONLY

2. COMMUNICATION

On 13 October 1999 (13.10.99) we sent you an information that the demands for the above mentioned two international applications were submitted after the prescribed time limit. Since then we did not receive any information that the applicants are nevertheless interested in pursuing the international procedure nor did we not receive any payment of the handling and preliminary examination fees nor any information about their payment.

Please clarify.

Name and mailing address of the IPEA/AT AUSTRIAN PATENT OFFICE Kohlmarkt 8-10 A-1014 Vienna Facsimile No. 1/53424/535	Authorized Officer Hofbauer Telephone No. 1/53424/225
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Form PCT/IPEA/424 (January 1994)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SG 98/00011

A. CLASSIFICATION OF SUBJECT MATTER IPC ⁶ : G 06 F 15/20 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC ⁶ : G 06 F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched WPI, PAJ, EPODOC Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) INSPEC-Database		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	Faloutsos C. et al.: FastMap: a fast algorithm for indexing, data-mining and visualization of traditional and multimedia datasets. SIGMOD Record, vol.24, no.2, pp. 163-174, June 1995 retrieved from INSPEC-Database on 11 October 1999 (11.10.99) abstract.	1-4,8-10 5-7,11-12
X A	Bhandari I. et al.: Advanced Scout: data mining and knowledge discovery in NBA data. Data Mining and Knowledge Discovery, vol.1, no.1, pp. 121-125, 1997 retrieved from INSPEC-Database on 11 October 1999 (11.10.99) abstract.	1-4,8-10 5-7,11-12
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>* Special categories of cited documents:</p> <p>„A“ document defining the general state of the art which is not considered to be of particular relevance</p> <p>„E“ earlier application or patent but published on or after the international filing date</p> <p>„L“ document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>„O“ document referring to an oral disclosure, use, exhibition or other means</p> <p>„P“ document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 48%;"> <p>„T“ later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>„X“ document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>„Y“ document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>„&“ document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search		Date of mailing of the international search report
12 October 1999 (12.10.99)		06 December 1999 (06.12.99)
Name and mailing address of the ISA/AT Austrian Patent Office Kohlmarkt 8-10; A-1014 Vienna Facsimile No. 1/53424/200		Authorized officer Mayer Telephone No. 1/53424/452

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SG 99/00011

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Famili A.et al.: Data preprocessing and intelligent data analysis. Intelligent Data Analysis, vol.1, no.1, Jan. 1997 retrieved from INSPEC-Database on 11 October 1999 (11.10.99) abstract.	1-12
A	Yoon SC. et al. :Intensional query processing using data mining approaches. Proceedings of the Sixth International Conference on Information and Knowledge Management. CIKM'97, pp. 201-208, Published: New York, NY, USA, 1997, ix+378pp. retrieved from INSPEC-Database on 11 October 1999 (11.10.99) abstract.	1-12
A	Takahashi H. et al.: High speed calculations of element matrix based on hierarchical tabulation technique. . Journal of the Japan Society for Simulation Technology, vol.14, no.3, pp. 214-221, Sept. 1995 retrieved from INSPEC-Database on 11 October 1999 (11.10.99) abstract.	1-12
A	US 5212639 (SAMPSON W. C.) 18 May 1993 (18.05.93) (abstract). [online] [retrieved on 11 October 1999 (11.10.99)]. Retrieved from EPODOC-Database.	1-12

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/SG 98/00011

Im Recherchenbericht angeführtes Patentdokument Patent document cited in search report Document de brevet cité dans le rapport de recherche	Datum der Veröffentlichung Publication date Date de publication	Mitglied(er) der Patentfamilie Patent family member(s) Membre(s) de la famille de brevets	Datum der Veröffentlichung Publication date Date de publication
US	5212639	CA AA 2035953	06-10-1991
		CA C 2035953	25-04-1995
		DE CQ 69127847	13-11-1997
		DE T2 69127847	20-05-1998
		EP A2 450825	09-10-1991
		EP A3 450825	15-09-1995
		EP R1 450825	08-10-1997
		JP A2 5101103	23-04-1997
		JP B2 2665407	22-10-1997
		US A 5212639	18-05-1994
		US A 5290113	14-02-1995
		CA AA 3121518	08-11-1994
		GB AO 2408352	15-06-1994

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

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NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

To:
K T LIM & COMPANY
101 Cecil Street
25-06 Tong Eng Building
SINGAPORE 069533

Date of mailing
(day/month/year) 10 May 2001 (10.05.01)

Applicant's or agent's file reference

IMPORTANT NOTIFICATION

International application No.

PCT/ SG 98/00011

International filing date (day/month/year)

13 February 1998 (13.02.98)

Priority Date (day/month/year)

Applicant

NATIONAL COMPUTER BOARD, ACTING THROUGH ITS R&D DIVISION, THE INFORMATI

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/AT

Austrian Patent Office
Kohlmarkt 8-10
A-1014 Vienna
Facsimile No. 1/53424/200

Authorized officer

Wolf

Telephone No. +43 / 1 / 53424 - 450

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/SG 98/00011	International filing date (day/month/year) 13 February 1998 (13.02.1998)	Priority Date (day/month/year)
International Patent Classification (IPC) or national classification and IPC IPC ⁷ : G06F 15/20		
Applicant NATIONAL COMPUTER BOARD, ACTING THROUGH ITS R&D DIVISION, THE INFORMATION TECHNOLOGY INST. et al.		
<p>1. This international preliminary examination report has been prepared by this International Preliminary Examination Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of _____ sheets.</p> <p>3. This report contains indications relating to the following items:</p> <p>I. <input checked="" type="checkbox"/> Basis of the opinion</p> <p>II. <input type="checkbox"/> Priority</p> <p>III. <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV. <input type="checkbox"/> Lack of unity of invention</p> <p>V. <input checked="" type="checkbox"/> Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI. <input type="checkbox"/> Certain documents cited</p> <p>VII. <input type="checkbox"/> Certain defects in the international application</p> <p>VIII. <input type="checkbox"/> Certain observations on the international application</p>		
Date of submission of the demand 8 October 1999 (08.10.1999)	Date of completion of this report 12 April 2001 (12.04.2001)	
Name and mailing address of the IPEA/AT Austrian Patent Office Kohlmarkt 8-10 A-1014 Vienna Facsimile No. 1/53424/200	Authorized officer MAYER T. Telephone No. 1/53424/452	

Form PCT/IPEA/409 (cover sheet) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SG 98/00011

I. Basis of the report

1. With regard to the elements of the international application:*

☒ the international application as originally filed☐ the description:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

☐ the claims:

pages _____, as originally filed

pages _____, as amended (together with any statement) under Article 19

pages _____, filed with the demand

pages _____, filed with the letter of _____

☐ the drawings:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

☐ the sequence listing part of the description:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).☐ the language of publication of the international application (under Rule 48.3(b)).☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

☐ contained in the international application in printed form.☐ filed together with the international application in computer readable form.☐ furnished subsequently to this Authority in written form.☐ furnished subsequently to this Authority in computer readable form.☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.4. ☐ The amendments have resulted in the cancellation of:☐ the description, pages _____☐ the claims, Nos. _____☐ the drawings, sheets/fig _____5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as „originally filed“ and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/SG 98/00011

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement			
Novelty (N)	Claims	1-12	YES
	Claims	---	NO
Inventive step (IS)	Claims	5-7,11,12	YES
	Claims	1-4,8-10	NO
Industrial applicability (IA)	Claims	1-12	YES
	Claims	---	NO

Citations and explanations (Rule 70.7)

The following documents are cited in the Search Report:

- D1: FastMap: a fast algorithm for indexing, data-mining and visualization of traditional and multimedia datasets.
D2: Advanced Scout: data mining and knowledge discovery in NBA data.
D3: Data preprocessing and intelligent data analysis.
D4: Intensional query processing using data mining approaches.
D5: High speed calculations of element matrix based on hierarchical tabulation technique.
D6: US5212639

Documents D1 and D2, which are considered to represent the most relevant state of the art, clearly disclose high speed algorithms for data tabulation. D1 discloses the mapping of objects into points in k-d space, using k feature-extraction functions which can be considered as the pre-processing stage in claim 1 where each data value is allocated to a numerical unique identifier. Document D2 shows data mining including a pre-processing of raw data and how the interpretation of patterns supports the process of knowledge discovery.

Therefore independent claims 1 and 8 comprising a data preprocessing stage and tabulation stage extracting the database information can be considered novel but these claims do not include an inventive step.

Dependent claims 2-4 and 9-10 show preferred realisation of independent claims 1 and 8 by the virtue of dependency.

Dependent claim 5 in the present application discloses the tabulation stage including initialising the result array having a number of cells determined by the product of the number of numerical identifiers in the data fields. A similar approach is not suggested in the cited documents. Selecting at least two data fields from the plurality of data fields in tabulation stage as described in claim 6 is also not disclosed in cited documents. Therefore dependent claims 5 to 7 and 11 to 12 can be considered new and representing an inventive step.

INTERNATIONAL PRELIMINARY EXAMINATION REPORTInternational application No.
PCT/ SG 98/00011**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Box V (page 1)

Documents D3 to D6 show further prior art data mining approaches and data pre-processing methods.

Industrial applicability is given.

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WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : G06F	A2	(11) International Publication Number: WO 99/41652 (43) International Publication Date: 19 August 1999 (19.08.99)
(21) International Application Number: PCT/SG98/00011 (22) International Filing Date: 13 February 1998 (13.02.98) (71) Applicant (for all designated States except US): NATIONAL COMPUTER BOARD, acting through ITS R & D DIVISION, THE INFORMATION TECHNOLOGY INSTITUTE [SG/SG]; 11 Science Park, Singapore Science Park II, Singapore 1177685 (SG). (72) Inventor; and (75) Inventor/Applicant (for US only): CHUAH, Yeow, Chong [SG/SG]; Information Technology Institute, 11 Science Park, Singapore Science Park, Singapore 117685 (SG). (74) Agent: K. T. LIM & COMPANY; Tong Eng Building, 101 Cecil Street #25-06, Singapore 069533 (SG).		(81) Designated States: AU, DE, JP, SG, US. Published <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: SYSTEM AND METHOD FOR HIGH SPEED, HIGH VOLUME TABULATION OF DATA (57) Abstract A system and method for high speed, high volume tabulation of data using a personal computer. The method involves two sub-processes, pre-processing and tabulation. In pre-processing, the data field is separated into individual field files, and each distinct value in each of the discrete fields is encoded with an incremental numerical code unique for that field. Tabulation of fields involves the creation of a one-dimensional result array in which each cell will contain the result of tabulation of each combination of distinct field values. The encoded files for all requested fields is then read and the relevant cell for each record is incremented, the relevant cell for each record being identified using a mapping algorithm based on the codes of the fields. This method and system allows tabulation to be done at high speed.		

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WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : G06F 15/20		A3	(11) International Publication Number: WO 99/41652
			(43) International Publication Date: 19 August 1999 (19.08.99)
(21) International Application Number: PCT/SG98/00011 (22) International Filing Date: 13 February 1998 (13.02.98) (71) Applicant (for all designated States except US): NATIONAL COMPUTER BOARD, acting through ITS R & D DIVISION, THE INFORMATION TECHNOLOGY INSTITUTE [SG/SG]; 11 Science Park, Singapore Science Park II, Singapore 1177685 (SG). (72) Inventor; and (75) Inventor/Applicant (for US only): CHUAH, Yeow, Chong [SG/SG]; Information Technology Institute, 11 Science Park, Singapore Science Park, Singapore 117685 (SG). (74) Agent: K. T. LIM & COMPANY; Tong Eng Building, 101 Cecil Street #25-06, Singapore 069533 (SG).			(81) Designated States: AU, DE, JP, SG, US. Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 20 January 2000 (20.01.00)
(54) Title: SYSTEM AND METHOD FOR HIGH SPEED, HIGH VOLUME TABULATION OF DATA			
(57) Abstract A system and method for high speed, high volume tabulation of data using a personal computer. The method involves two sub-processes, pre-processing and tabulation. In pre-processing, the data field is separated into individual field files, and each distinct value in each of the discrete fields is encoded with an incremental numerical code unique for that field. Tabulation of fields involves the creation of a one-dimensional result array in which each cell will contain the result of tabulation of each combination of distinct field values. The encoded files for all requested fields is then read and the relevant cell for each record is incremented, the relevant cell for each record being identified using a mapping algorithm based on the codes of the fields. This method and system allows tabulation to be done at high speed.			

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